Spring Core_Maven

Scenario:

Your company is developing a web application for managing a library. You need to use the Spring Framework to handle the backend operations.

Steps:

- 1. Set Up a Spring Project:
 - o Create a Maven project named Library Management.
 - o Add Spring Core dependencies in the pom.xml file.
- 2. Configure the Application Context:
 - Create an XML configuration file named applicationContext.xml in the src/main/resources directory.
 - Define beans for BookService and BookRepository in the XML file.
- 3. Define Service and Repository Classes:
 - o Create a package com.library.service and add a class BookService.
 - Create a package com.library.repository and add a class BookRepository.
- 4. Run the Application:
 - Create a main class to load the Spring context and test the configuration.

Solution:

Created BookRepository.java

Created BookService.java

```
clipse-workspace - LibraryManagement/src/main/java/com/library/service/BookService.java - Eclipse IDE

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Project Explor... X D BookService.java X D applicationContext.xml D MainApp.java

package com.library.service;
import com.library.repository.BookRepository;

public class BookService {
    private BookRepository bookRepository;
    public void setBookRepository (BookRepository) {
        this.bookrepository = bookRepository;
    }

public void addBook() {
        System.out.println("BookService: Adding book...");
        bookrepository.saveBook();
}
```

Created applicationContext.xml

Created the test class, MainApp.java

Output:

```
BookService: Adding book...
BookRepository: Saving book to database...
```